Student Roll No.				Example Roli No ال عن موبائل فون لا بالك من ع	74
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0	0	0 0	0	MRD-XII-17 (A) ○ ○ ○ ○ ○ ○ CHEMISTRY - (Part-I	I)
①	1	① ①	1	(Fresh / New Course	•)
②	2	②	2	Total Time: 3hrs Total Mar	'ks:85
①	3	③③	3		†
•	. ①	⊙ ⊙	①	$\odot \odot \odot \odot \odot$	
(5)	(6)	(§) (§)	(5)		
. 0	0	(1)	③ .		
0	• ①	0 0	① ·	① ① ⑦ ● ① CH12A	
6	•	③ ③ .	(B)		
0	0	19	<u> </u>	00000	,

Time: 2	Omin -		"SECTIO	N - A"			Marks: 18				
NOTE:	Use Black/Blue m	arker for shadii	ig only one bubble	e for each c	juestion. No mari	k will be aw	arded for Cutting,				
Q. 1	erasing, overwrith Choose the correc	ng, and multipl	e bubble shading.								
Ų, I į,							•				
ι,	Acetic acid can be ob			_	_	_					
ii.		(B)	H ₂ O	©	ИСНО	•	CICN				
ŧ1.	Which substance is a			e? 🔏		•					
22:	⊗ SOCl ₂		PCl ₃	, ●	HCl + ZnCl ₂	•	All of these				
iii.	1,4-dimethyl benzen	e are also called		. •							
ž.,	o-xylene	- ●	p-xylene	©	m xylene	. (0)	p-toluene				
iv.	Geometry of SIO ₂ is .	***************************************		O .							
	(A) Trigonal		Tetrahedral	0	Pyramidal	0	Angular				
V.	The fractional distill	* .									
	Methane	•	Toluene	©	Coke	· (b)	Ammonium				
vi.	C-O bond length in p	~	sulphate								
*	Greater	nenoras compar	Lesser	_		_	TI 1 - 1 - 1 - 1				
vii.	Which lons used as a	entaluet in the res			Same	•	Variable				
	(A) Chromium	atalyst in the rea	Iron				at the				
viii.	Which of the follows	na huduagadhan		©	Copper		Chlorine				
7 1111	(A) Methane		Ethane	pectrum wi							
ix.	•	(B)		•	Butane	0	Cyclobutane				
1.7.	In Wolf Kishner read Alkane										
v	Tripsin is present in	®	Alcohols	©	Ethers	•	Esters				
х.	Stomach		6. N	_			•				
!	_	(B)	Saliva	©	Bile	•	Pancreatic juice				
Χί.		The hemolytic fission of C-C bond in ethane gives an intermediate in which carbon ishybridized									
	Sp ³ · · · · · · · · · · · · · · · · · · ·	, (B)	$\mathrm{sp^2}$	(6)	sp	0	sp²d				
xii.	- The compound imin					•					
	Schiff's base		Bronsted base	. ©	Lewis base	0	Lewis acid				
xiii.	Temperature cange	of stratosphere i									
	♠ 15 to -52°C	•	-56 to -2°C	©	-52 to -2°C	0	-2 to 92°C				
xiv.	Welding gas formula is C2Hz. Its name is										
	Methane	₿	Ethane	@	Butane	•	Ethyne				
XV.	Most abundant carb	ohydrate in natu	re is			1.4					
	Cellulose	③	Pectin	@	Chitin	¥	Glycogen				
xvi.	The inter pair effect	dominates in				$-I^{\circ}$	-				
	Sn	0	Ś	(0)	C		Pb				
xvii.	The compound with	_									
	Acetic acid	. ®	Ethyl alcohol	6	Water	0	Ether				
xviii.	The oxidation state	of Chromium in (CrOzClz is								
	4	•	6	. (6)	5	6	· 2				

⑤ 5

⑥ '2

CHEMISTRY- (Part-II) (Fresh / New Course)

Time Allowed: 2:40 Hrs

Section - B & C

Total Marks: 67

"Section - B"

Marks: 40

Q. 2 Write short answer of any TEN of the following parts. Each part carries equal marks.

- (i) What is electron affinity? Compare E.A value of group VI and VII.
- (ii) Draw a molecular orbital diagram of benzene.
- (iii) What are hydrocarbons? How they are classified?
- (iv) What is condensation polymerization? Give examples of formation of Nylon 6, 6.
- (v) State the medical problem that may relate to calcium and phosphorus.
- (vi) Discuss the importance of Diazonium salt.
- (vii) Write the reaction of alcohol with SOCl2 and PX3.
- (viii) Differentiate between aldose and ketose.
- (x) Why amines are more basic than ammonia?
- (x) Carboxylic acids have high boiling point than corresponding alcohols. Why?
- (XI) Discuss hydration of alkyne.
- (xii) Why the compound of transition are mostly coloured?
- (xiii) Write note on: i) Decarboxylation ii) Esterification

"Section - C"

Marks: 27

NOTE: Attempt any THREE questions. Each question carries equal marks.

- Q. 3: a) What is orientation? Discuss orientation effect for disubstitution on benzene ring.
 - b) Write any three methods for preparation of carboxylic acid.
- Q. 4: a) How Beryllium differ from other members of group 11?
 - b) Discuss the reaction of Grignard reagent with the following: i. Aldehydes il. Esters iii. CO₂ iv. Ketone
- Q. 5: a) Write note on any TWO of the following.
 - Water pollution
 - ii) Colors and shapes of complex ion
 - iii) Application of spectroscopy
- Q. 6: a) Write the structural formulae of the following names:

i. Oxalic acid ii. 4-methyl-2, 3-hexadlyne iii. 3-phenylpantane iv. Chloromagnesium acetate

b) Name the following compounds according to IUPAC system: